

A NEW KALLSTROEMIA FROM TEXAS

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Kallstroemia hirsuta n. sp.¹ Ascending or erect annual, 1–2 dm. high; stems 1–several from the base, densely hirsute and strigose-pubescent, the hirsute hairs with pustulate bases; leaves 2–4.5 cm. long, oblong to ovate-oblong, petiolate, densely hirsute and strigose-pubescent on both surfaces, the petiole about as long as the lower pair of leaflets; leaflets 3–6 pairs, sessile, obliquely oblong or ovate, 7–14 mm. long, 3–8 mm. wide, obtuse or acute, about equal in size, the terminal more oblique; stipules lance-oblong, 3–4 mm. long, 1–1.5 mm. wide; calyxlobes linear to linear-lanceolate, 10–13 mm. long, 1.5–2.5 mm. wide, hirsute and strigose-pubescent on the outer surface, the chartaceous margins inrolled in fruit; petals about 5, deltoid-ovate, 18–23 mm. long, probably white or yellowish, not marcescent; fruit compressed-oval in outline, 8–10 mm. wide, 5–6 mm. high, outer surface of carpels not tuberculate but the median portion and the two edges prominent and connected by transverse ridges, densely hirsute, particularly on the raised portions; persistent style or beak 8–10 mm. long, hirsute at the inconspicuously swollen base, stigmatic portion 1.5–2 mm. long, furcate.

TEXAS: Langtry, Valverde County, May, 1913, *C. R. Orcutt*, 6126 (Mo. Bot. Gard. Herb.) TYPE.

This species is most closely allied to *K. grandiflora* Torr., from which it may be separated by the following characters: the entire plant is densely pubescent with hirsute and strigose

¹ ***Kallstroemia hirsuta*** sp. nov. Annua 1–2 dm. alta, dense hirsuta et strigoso-pubescente; foliis oblongis aut oblongo-ovatis utrinque pubescentibus; foliolis 3–6 paribus, sessilibus, 7–14 mm. longis, 3–8 mm. latis; stipulis lanceolato-oblongis, 3–4 mm. longis, 1–1.5 mm. latis; lobis calycis linearibus vel linearilanceolatis, 10–13 mm. longis, 1.5–2.5 mm. latis; petalis ca. 5, deltoideo-ovatis, 18–23 mm. longis; carpellis non tuberculatis parte medio et marginibus prominentibus; stylo 8–10 mm. longo, ad basem hirsuto.

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hairs intermixed; the carpels are not tuberculate on the outer surface nor merely equally strigose but have the median portion and the outer edges raised and these connected with transverse ridges, and especially the raised portions hirsute with a small amount of strigose pubescence intermixed; beak hirsute at the base only instead of strigose nearly to the stigmatic portion.

EXPLANATION OF PLATE

PLATE 4

Kallstroemia hirsuta Williams. From the type specimen, *Charles Russell Orcutt*, 6126, in the Missouri Botanical Garden Herbarium. $\frac{2}{3}$ natural size.